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1. A14-048: Development of Biocompatible Dressings for the Delivery of Analgesics to Burn Wounds

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Develop a biocompatible dressing material for the controlled delivery of analgesic drugs to burn wounds. DESCRIPTION: Thousands of U.S. military personnel have suffered serious burn wounds and other injuries during Operations Iraqi Freedom (OIF) and Enduring Freedom (OEF), where burns have been identified as the primary cause of injury in 5% of all military personnel evacuated from t ...

SBIR Department of Defense Army

2. A14-049: Diagnostic Device for Norovirus Gastroenteritis

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Demonstrate a prototype diagnostic test for gastroenteritis caused by Norovirus infection. The technology shall be able to detect infection at the onset of symptoms, be able to test unprocessed samples, incorporate all necessary controls, be compatible with use in an austere environment (small, lightweight, and insensitive to environmental extremes), and provide users with automated res ...

SBIR Department of Defense Army

3. A14-050: Novel Imaging Agents for Tauopathies Associated with Brain Injury

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Identify, design, synthesize and characterize PET/SPECT radiotracers for imaging of tauopathies. Tauopathies are associated with abnormally phosphorylated or folded Tau protein in response to TBI or concussion. Small molecules which bind pathological Tau species are sought. DESCRIPTION: Traumatic Brain Injury (TBI) is a suspected risk factor for neurodegenerative diseases such as Al ...

SBIR Department of Defense Army

4. A14-051: Secure Wireless Communications for Enroute Combat Casualty Care

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: The objective of this topic is to develop and demonstrate a secure wireless communications capability and developer's implementation toolkit that can be installed on any handheld ruggedized SMART phone or tablet in order connect the devices with wireless medical sensors and secure military communication networks. This research will incrementally advance the state of the art in enroute ...

SBIR Department of Defense Army

5. [A14-052: Ultra Low-Power System on a Chip \(SoC\) for Physiological Status Monitoring \(PSM\)](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Demonstrate an ultra-low power multi-node ambulatory physiological monitoring system where a System on a Chip (SoC) senses, processes, and communicates health state information to a standard Android smart platform. DESCRIPTION: Commercially-available medical-grade wearable physiological status monitoring (PSM) devices (e.g., www.equivital.co.uk, www.zephyr-technology.com) are curren ...

SBIR Department of Defense Army

6. [A14-053: Squad-Multipurpose Equipment Transport Medical Module Payload for Casualty Extraction](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: This project will develop and demonstrate an innovative and novel medical module payload for the Squad-Multipurpose Equipment Transport (S-MET) unmanned ground vehicle (UGV), enabling the S-MET to extract a combat casualty and perform medic attended CASEVAC. DESCRIPTION: Combat Medics and Marine Corpsmen routinely put themselves at risk to get to, and extract wounded, and in doing ...

SBIR Department of Defense Army

7. [A14-054: Mobile Military CO2 Refrigeration](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Develop technology to enable mobile, military, containerized cold-storage assets that use carbon-dioxide as the refrigerant, for purposes of eliminating reliance on the more heavily regulated and expensive refrigerants currently used. DESCRIPTION: The result of chlorofluorocarbon (CFC) and hydrochlorofluorocarbon (HCFC) regulation in the 1990's was that road and rail transport ...

SBIR Department of Defense Army

8. [A14-055: Development of Tool to Assess the Impact of "Off-shade/Specification" Samples on Visual and Signature Performance Requirements](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Develop a technique or system to rapidly determine the impact of deviations from established shade performance specifications on the camouflage effectiveness of Soldier uniforms in a photorealistic and radiometrically correct manner. DESCRIPTION: This SBIR seeks innovative approaches to visualize and quantify the impact on camouflage effectiveness of materials determined to be "off sp ...

SBIR Department of DefenseArmy

9. [A14-056: Technology to Support Non-destructive Inspection of Helicopter Sling Load \(HSL\) Slings and Textiles](#)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a technology to non-destructively inspect and test helicopter sling load slings to standards in TM 4-48.09 and FM 3-55.93 DESCRIPTION: Helicopter slings are textiles used to attach a payload (e.g. a truck, howitzer, or container) to the underbody of a military helicopter. This"external underslung payload"is then transported from one location to another. Helicopter slings co ...

SBIR Department of DefenseArmy

10. [A14-057: Innovative Anti-Fog Technology for Personal Protection Eyewear](#)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop innovative anti-fog technology concepts compatible with impact resistant transparent materials and associated coatings that can be applied to optically corrected complex curvature lenses. DESCRIPTION: Fogging of eyewear has been a long standing issue regardless of the eyewear purpose. Protective eyewear is only effective when worn properly; however, if the user cannot see th ...

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